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C Lally, F Colan, PJ Prendergast - Journal of Blomechanics, 2005 - Elsewer

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PJ Prendergast, C Lally, S Daly, AJ Reid, TC ... - Journal of ..., 2003 - link, sip.org

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the compression applied by the vessel wall, minimal longitudinal contraction when it is

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F Migliavacca, L Petrini, M Colombo, F Audicobio, ... - Journal of ..., 2002 - Elsevier

... F. Auricchio, M. Di Loreto and E. Sacco , Finite-element analysis of a stenotic artery revascularization through a ... O. Roquebert, J. Sainsous, M. Silvestri and G. Bayet, Elastic recoil

of coronary stents; a comparative ... Catheterization and Cardiovascular Interventions 50 (2000), ...

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Balloon-artery interactions during stent placement, a finite element analysis approach to pressure, ahajournals.c

compliance, and stent design as contributors to vascular injury C Rogers, DY Tseng, JC Souire, ER ... - Circulation research, 1999 - Am Heart Associ

... tube design were mounted on 3-mm angioplasty balloons (Advanced Cardiovascular

Systems/Guidant ... After positioning the stent-mounted balloon, colored water was injected into the ... Finite Element Analysis To study how individual components of the balloon-artery interaction ...

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F Etave, G Finet, M Bowin, JC Boyer, G Rigufol, G ... - Journal of ..., 2001 - Elsevier

... Keywords: Stent; Angioplasty; Finite-element analysis; Mechanics; Simulation. Article Outline. ...

In order to achieve this, we have used finite element analysis to model two different stents, each

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AURICCHIOa'*, M. DI LORETO" and E. SACCOc "Dipartimento di Meccanica Strutturale, Università di Pavia, Italy; bDipattimenlo di Ingegneria Civile, Università di Roma "Tor Vergata ...

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WQ Wang, DK Liang, DZ Yang, M Qi - Journal of biomechanics, 2006 - Elsevier

... Keywords: Stent; Finite element method; Design optimization; Dogboning; Foreshortening. Article

Outline. ... 3D geometrical models of stent/balloon 2.2. Constitutive material models 2.3. Finite

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M De Beule, P Mortier, SG Carlier, 8 Verhegghe, ... - Journal of ..., 2008 - Elsevier

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deployment of an intravascular stent has become a common and widely used minimally ...

1 of 2 7/6/10 9:58 AM

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... 947–957. View Record in Scopus | Cited By in Scopus (22). Lally et al., 2005 C. Lally, F. Dolan and PJ Prendergast, Cardiovascular stent design and vessel stresses: a finite element analysis, Journal of Biomechanics 38 (2005), pp. 1574–1581. Article I.

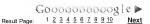
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... In this study the **finite element** method (FEM) was applied to a new generation coronary **stent**... Keywords: **Finite element** method; Experimental test, Mechanical properties; Coronary **stent**. Article Outline: 1. Introduction 2. Material and method 2.1. Computational simulation 2.2...

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Mechanical properties of coronary stents determined by using finite element analysis F Esten, G First, M Boxin, U2 Boyer, G Roudel, G Journal of 2001 - Bisever I. Keywords: Sterit, Angioplasty, Finite-element analysis Mechanics, Simulation, Article Outline In order to achieve this, we have used finite element analysis to model two different stents, each of which is most presentative of its type, ie, one tubular and one coil-type stent Glad 17/30 - Related articles - BL, Direct - Alf 6 versions	
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Finite element analysis for the design of Nitinoi medical devices Nicholo, M Perry - Maritally Imasive Therapy and Alaed 2000 - advantaged com along with Its biocompatibity, have given the material a wide range of applications, from thermal switches and electrical connectors, to cardiovascular stents This article will discuss how finite element analysis (FEA) can be employed to hasten time to market of NiTi products, by Caled 30: 13 - Relating articles - St., Direct - Alif 4 wiresions	
Finite element modeling of blood flow in arteries CA Tayler, TVR Haybes, CK Zarins - Comparer methods in applied, 1998 - Eleveier these connections must be formed in such a way as to ensure that when the geometric model is discretized by a finite element mesh generator be required is presented by the case of modeling the inclusion of a stentgraft (graft approximated as a thin shell, stent approximated by Cater Iza 301 - Related articles - ABT. Assistants	tau.ac.il [PDF]
Finite element evaluation of stresses on closed leaflets of bioprosthetic heart valves with flexible stents MR Hamist, HN Sabburt, PD Stein - Finite Elements in Analysis and 1985 - Elsevier Elements in Analysis and Design 1 (1989) 213225 North-folland 215 Finite ELEMENT EVALUATION OF N. SABBAH and Poal D. STRIN Department of Medicine, Division of Cardiovascular Medicine, Henry purpose of this study is to evaluate the influence of stent flexibity Gleat by 13 - Related attackies - All 3-resions	<u>a</u>
Coronary stent implantation changes 3-D vessel geometry and 3-D shear stress distribution 3.1 Wentzel Jeurnal of Bonnechanics, 2000 Elsevier	

1 of 2 7/6/10 10:09 AM

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S Natarajan ARR Mokhterzadeh-Defighan - Mic-float ergineening & ..., 2000 - Ehsevier ... Author Keywords: Finite element, Periodic blood flow; Bumps; Stented vessel; Wall shear stress. ... The use of cardiovascular stents has increased substantially in recent years but the haemodynamic effects of ... Both the geometry of the stent and the level of infrusion into the blood ...

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ign optimization of coronary stent using finite element analysis	
eo., O Yuan, HP Yeo - ASAIG Journal, 2005 - Journals New com. It Element Mentod to optimize design of coronary stent is presented. The stent was modeled go computer aided design software. Pro-Engineer. IGES data from the modeled stent was reted to ANSYS 5.5 to generate the finite element model using a 8-noded Ligual - Bellatia aiddes	
oon-artery interactions during stent placement a finite element analysis approach to	ahajoumals.org [HTML]
issure, Combiliance, and stent design as contributors to vascular injury gres, DY Tseng, UC Savilie, ER Condition research, 1996. Am Heart Assoc men more than balloon angioplasty and reduce rates of restences after coronary angioplasty the factors involved in vascular injury imposed during stent deployment might allow optimization ent Stents of corrupated-ring ostloted-tube design were mounted on 3-mm LDV 126 - Related articles - Bi. Directi - All 3 versions	
ethod for investigating the mechanical properties of intracoronary stents using finite nerical simulation	element
an DC Webb, K Komi, STS Al-Hassani - International journal of, 2001 - Elsevier ork is to develop a general FE procedure for modelling the structure of coronary stents Therefore	
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engineering reasoning, the requirements of the optimisation exercise are Ltv. 22 - Related articles - All 6 versions	
hanical behaviour modelling of balloon-expandable stents moulin, B Cectrelin - Journal of Biomedianics, 2000 - Eisewer	
oreover, confronted with observations from practitioners, they might lead to a better	
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te element analysis for the design of Nitinol medical devices	
ibelo, M Perry - Nammally invasive Therapy and Allied 2000 - informaworld corn Its superelastic material properties have been exploited for the manufacture of coronary and	
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gn optimisation to quickly access his or her design and to iterate the design on a Ltv. 13 - Related articles - BL Direct - Alf 4 versions	
sical properties of endovascular stents: an experimental comparison	
hubs, J. Walterchen, G. Tepe, M. Bitzer, TW Journal of Vascular and, 2500 - Elsevier e usefulness of a stent system in tortuous vessels or when using a crossover The following	
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onary in-stent restenosispredictors, treatment and prevention	oxfordjournals.org (PDF)
Hinnann, GS Mintz - European heart journal, 2000 - Eur Soc Cardiology ersus Intravascular ultrasound-Directed stent placement (AVID) trial and the OPTimization with	
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ss variations in the human aortic root and valve; the role of anatomic asymmetry	proteoglycan.com (PDF)
irande, RP Cochran, PG Reinhall, KS Annals of biomedical, 1998 - Springer e valve leaflets, 2,7 potential valve failure mechanisms, 5,17,27 and the design optimization	
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ever, speculation as to the actual cause of the underlying design is beyond the scope of Lby 55 - Belated articles - BL Direct - All 7 versions	

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pon Finite-element analysis of aortic valve-sparing; influence of graft shape and stiffness RJ Grandt-Allen, RP Corbran PG ... - IEEE Transactions ... - 2001 - proteoplysin critical analysis of the corporate value of the corbonal value of the

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Physical properties of endowascular ster SH Dufe, J Wileskrichen, G Tope, M Brizer, TV. The hoop strength of the balloon-expandable st N'cm (AVE Bridge X). The stent weight increase g/cm s. AVE Bridge X, Old g/cm). The self-ex- Cited by 79 - Related articles - Bt. Direct - AE 4.	Journal of Vascular and . nts ranged from 15.8 N/cm (d with greater hoop strength spanding stents had a radial i	., 2000 - Eisevier Perflex) to 28.9 (Perflex, 0.046	
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Measurement of the symmetry of in vitro. Narracoti, DR Hose, PV Lawford, J Jour Balcon-expandable stents are used routinely in t effectiveness is limited by the occurrence of rest the level of restenois may be related to the dep Catest. IX. 4. Relablant articles - BL, DR mat 64.5. xx.	nal of medical 2003 - info he treatment of coronary art enosis. Previous studies havi loyed stent geometry, and in	mahealthcare.com ery disease. Their e suggested that	
Development of titanium based biocomp of Ca-P phases K Karanjat, R Sundanesan, GVN Rev., TRR., Composites of titanium and calcium-phosphorus processing and evaluated for bioactivity. Titanium and phosphorus in the form of calcium carbonate descriptions.	Minterials Science and, 20 phases were developed by p hydride powder and precur	107 - Elsevier powder metallurgy sors of calcium	

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生物技术通讯 LETTERS IN BIOTECHNOLOGY Vol.16 No.6 Nov., 2005 ... Mansfield[12]等最早进行了内皮化的研究。他们将种植了内皮 细胞的涤纶植入大的动脉壁、3

周后发现涤纶表面无血栓形成。 无炎性侵润。Herring 等[13]提出并证实了EC ...

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C Dunnoulan, B Cochein - Journal of Biomectanios, 2500 - Elsevier The numerical specifications of this work were the use of the finite element method with the program package ABAOUS 2 in static stress/displacement analyses, and a material assumed	
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Coronary stenting versus balloon angioplasty in small coronary artery with complex lesions

C Brigoni, T Nishada, M Arlamian, R., - Catheterization , 2000 - interscence wiley.com ,... coronary artery. Superficial injury during stent deployment is the result of balloon and artery vessel wall interaction. It remains to be explained why stenting elicits a

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